

Table 4.

**CHINA'S WEAKNESSES<sup>1</sup>*****Aeronautics Systems Technology***

|  |   |
|--|---|
| Fixed Wing Aircraft .....              | 2 |
| Gas Turbine Engines <sup>2</sup> ..... | 2 |
| Human (crew) systems.....              | 1 |

***Marine Systems Technology***

|  |   |
|--|---|
| Propulsors & Propulsion System.....          | 0 |
| Signature Control & Survivability.....       | 1 |
| Subsurface & Deep Submergence Vehicles. .... | 1 |

***Guidance, Navigation, & Vehicle Control Technology***

|   |   |
|---|---|
| Aircraft & Vehicle Control Systems..... | 2 |
| Inertial Navigation Systems.....        | 2 |
| Radio & Data-Based Nav. Systems.....    | 2 |

***Directed & Kinetic Energy Systems Technology***

|                                   |   |
|-----------------------------------|---|
| Lasers, High Energy Chemical..... | 2 |
| Supporting Technologies.....      | 1 |

***Weapons Effects & Countermeasures Technology***

|   |   |
|---|---|
| Induced Shockwave from Penetrating Weapons..... | 1 |
|---|---|

***Sensors and Laser Technology***

|                                       |   |
|---------------------------------------|---|
| Acoustic Sensors.....                 | 0 |
| Marine Active Sonar.....              | 2 |
| Marine Passive Sonar.....             | 2 |
| Marine Platform Acoustic Sensors..... | 2 |
| Electro-Optical Sensors.....          | 2 |
| Gravity Meters. 1                     |   |
| Lasers.....                           | 2 |
| Magnetometers.....                    | 2 |
| Radar.....                            | 1 |

***Signature Control Technology***

|  |   |
|--|---|
| Materials .....                          | 2 |
| Design Concepts. ....                    | 2 |
| Applications to integrated Systems ..... | 1 |
| Manufacturing.....                       | 1 |
| Logistics.....                           | 1 |
| Testing.....                             | 2 |
| Computer Codes.....                      | 1 |

***Space Systems Technology***

|                                 |   |
|---------------------------------|---|
| Computer & Electronics.....     | 1 |
| Optronics.....                  | 2 |
| Power & Thermal Management..... | 1 |
| Space Systems Propulsion.....   | 2 |
| Space System Sensors .....      | 2 |

***Information Systems Technology***

|  |   |
|--|---|
| C <sup>4</sup> I <sup>2</sup> Systems..... | 1 |
| CAD/CAM.....                               | 2 |
| High Performance Computing.....            | 1 |
| Human Systems Interface.....               | 1 |
| Information Security.....                  | 2 |
| Intelligent Systems .....                  | 1 |
| Modeling & Simulation.....                 | 0 |
| Networks & Switching .....                 | 2 |
| Signal Processing .....                    | 2 |
| Software .....                             | 1 |
| Transmission Systems .....                 | 1 |

***Information Warfare Technology***

|                                       |   |
|---------------------------------------|---|
| Electronic Attack.....                | 1 |
| Electronic Protection .....           | 0 |
| Optical Counter-Measures.....         | 0 |
| Optical Counter-Counter-Measures..... | 0 |

***Electronics Technology***

|                                 |   |
|---------------------------------|---|
| Electronic Components .....     | 1 |
| Electronic Materials .....      | 2 |
| Fabrication Equipment .....     | 2 |
| General Purpose Equipment ..... | 2 |
| Micro-Electronics .....         | 2 |
| Opto-Electronics .....          | 1 |

***Manufacturing & Fabrication Technology***

|   |   |
|---|---|
| Advanced Fabrication & Processing.....        | 2 |
| Bearings .....                                | 2 |
| Metrology .....                               | 1 |
| Non-Destructive Inspection & Evaluation ..... | 1 |
| Production Equipment .....                    | 2 |
| Robotics .....                                | 1 |

***Materials Technology***

|                         |   |
|-------------------------|---|
| Magnetic Materials..... | 2 |
| Optical Materials ..... | 2 |

***Electric Power Systems***

|                                  |   |
|----------------------------------|---|
| Pulse & High Power Systems. .... | 1 |
|----------------------------------|---|

1. Weakness is defined as having the capability to produce only "none" or "some" (levels 0-2) of the specific military technologies.

2. Also applies to marine gas turbine engines for naval applications.

**Legend:** Production Capabilities: 0 = No capability or no consensus. 1 = Limited. 2 = Some. 3 = Majority. 4 = All